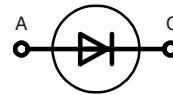


Power Schottky Rectifier

$I_{FAV} = 6 \text{ A}$
 $V_{RRM} = 25 \text{ V}$
 $V_F = 0.3 \text{ V}$

V_{RSM}	V_{RRM}	Type	marking
V	V		on product
25	25	DSS 6-0025BS	6Y025BS


TO-252 AA


A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		20	A
I_{FAV}	$T_C = 140^\circ\text{C}$; rectangular, $d = 0.5$	6	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	80	A
E_{AS}	$I_{AS} = \text{tbd A}$; $L = 180 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	tbd	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	tbd	A
$(dv/dt)_{cr}$		1000	V/ μs
T_{VJ}		-55...+150	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-55...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	40	W
Weight	typical	0.3	g

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM} -values
- Epoxy meets UL 94V-0

Applications

- Rectifiers in switch mode power supplies (SMPS)
- Free wheeling diode in low voltage converters

Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses

Dimensions see Outlines.pdf

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$		6 mA
	$T_{VJ} = 125^\circ\text{C}$ $V_R = V_{RRM}$		40 mA
V_F	$I_F = 6 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.30	V
	$I_F = 6 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	0.40	V
	$I_F = 12 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.40	V
R_{thJC}		3.0	K/W

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %
 Data according to IEC 60747 and per diode unless otherwise specified

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